

# Materials Science & Engineering B.S. Major 2021-2022 (Engineering Calculus)

First Year		Second Year		Third Year		Fourth Year	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>CHEM 1210</b> Chemistry I (4 credits)	<b>CHEM 1220</b> Chemistry II (4 credits)	<b>MSE 2010</b> Intro MSE (4 credits)	<b>CHEM 2310</b> Org Chem (4 credits)	<b>MSE 3410</b> Intro Polymers (3 credits)	<b>MSE 5090</b> Communication (3 credit) CW	<b>MSE 5098</b> Senior Design (2.5 credits)	<b>MSE 5099</b> Senior Thesis (2.5 credits)
<b>CHEM 1215</b> Chem Lab I (1 credit)	<b>CHEM 1225</b> Chem Lab II (1 credit)	<b>ME EN 2010</b> Statics (3 credits)	<b>MSE 3061</b> Transport (3 credits) QI	<b>MSE 3032</b> Thermo (4 credits)	<b>*MSE 5034</b> Kinetics (3 credit)	<b>MET E 5450</b> Mech Behavior (3 credits) QI	<b>Tech Elective</b> MSE Section 1 (2-3 credits)
<b>MATH 1310</b> Eng Calc I (4 credits) QA	<b>MATH 1320</b> Eng Calc II (4 credits) QB	<b>MATH 2250</b> ODEs/Lin Alg (4 credits)	<b>MATH 3140</b> PDEs (4 credits)	<b>MSE 3010</b> Mtls Processing (3 credits)	<b>MSE 3310</b> Intro Ceramics (3 credits)	<b>Tech Elective</b> Eng Section 3 or Internship (3 credits)	<b>Tech Elective</b> MSE Section 1 (3 credits)
<b>MSE 1800</b> MSE I - Optional (1 credit)	<b>MSE 1801</b> MSE I - Optional (1 credit)	<b>PHYS 2210</b> Physics I (4 credits)	<b>PHYS 2220</b> Physics II (4 credits)	<b>MSE 3210</b> EPS (3 credits)	<b>MSE 3011</b> Mtls Character (4 credits) QI	<b>Tech Elective</b> MET E Section 2 (3 credits)	<b>Gen Ed.</b> (3 credits)
<b>WRTG 2010</b> Intro Writing (3 credits) WR2	<b>Gen Ed.</b> (3 credits)	<b>MSE 2001</b> Python (2 credits)	<b>ECE 2200</b> Elect Eng (1.5 credits)	<b>Gen Ed.</b> (3 credits)	<b>Gen Ed.</b> (3 credits)	<b>Gen Ed.</b> (3 credits)	<b>Gen Ed.</b> (3 credits)
<b>LEAP 1501</b> Eng LEAP I BF or <b>Gen Ed.</b> (3 credits)	<b>LEAP 1500</b> Eng LEAP II HF & DV or <b>Gen Ed.</b> (3 credits)	<b>Major Status</b>		<b>BS/MS Option</b> Department BS/MS Application Due April 1st	<b>BS/MS Option</b> Grad School Application Due Jan 15th	<b>BS/MS Option</b> For graduate courses taken here see Graduate Academic Advisor	
16 credits	16 credits	15 credits	17 credits	14.5 credits	16 credits	14.5 credits	14.5 credits



**Department of Materials Science & Engineering**  
**College of Engineering | University of Utah**  
[www.mse.utah.edu](http://www.mse.utah.edu)

Total Required credits: 123.5 or more  
 C grade or better in all major required courses  
 Technical Electives: 11 or more  
 2.3 GPA required

- Key**
- Prerequisites Enforced →
  - Recommended Co-requisites ⋮
  - Recommended Prerequisite ⋯→